Notice of Allowability	Application No.	Applicant(s)	
	10/723,226	HIGGINBOTHAM E	T AL.
	Examiner	Art Unit	
	 William C Doerrler	3744	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHT of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to the 11-26-2003 applicated applicat	pars on the cover sheet with (OR REMAINS) CLOSED in or other appropriate communication is substantial and MPEP 1308. Cation. The Examiner. Index 35 U.S.C. § 119(a)-(d) or other appropriate communication is substantial and methods.	h the correspondence addr this application. If not includ nication will be mailed in due ubject to withdrawal from issu	ed course. THIS
3. Copies of the certified copies of the priority doc International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	cuments have been received of this communication to file	in this national stage applica	
 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give the submit information of the submit in	es reason(s) why the oath or of t be submitted. on's Patent Drawing Review s Amendment / Comment or i 84(c)) should be written on the ne header according to 37 CFR sit of BIOLOGICAL MATE	declaration is deficient. (PTO-948) attached In the Office action of the drawings in the front (not the 1.121(d). RIAL must be submitted.	back) of
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/06 Paper No./Mail Date 11-26-2003 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Sur Paper No./M 8), 7. ☐ Examiner's A	ormal Patent Application (PTC mmary (PTO-413), lail Date mendment/Comment statement of Reasons for Allo William C Doerrler Primary Examiner Art Unit: 3744	,

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REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: While the prior art shows krypton and xenon recovery by adsorption from an oxygen stream, no evidence can be found of using adsorption to remove krypton and xenon from a liquid oxygen steam that is mostly vaporized and contains a concentration of xenon no greater than 50 times the concentration of xenon in air. For example, in Shino et al (5,039,500) the liquid contains "several tens of ppm of xenon" (col. 1 lines 64-65). This is similar to Golden et al (6,658,894 Col. 7 line 48) which states a concentration of 20-60 ppm. Given a concentration in standard air of approximately .08 ppm, the references use a stream having over 200 times the concentration of air. Using a feed stream of lower concentration is seen as counterintuitive and thus nonobvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William C Doerrler whose telephone number is (703) 308-0696. The examiner can normally be reached on Monday-Friday 6:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Denise Esquivel can be reached on (703) 308-2597. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William C Doerrler Primary Examiner Art Unit 3744

WCD